## Nikhil Matcha

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### **CAREER OBJECTIVE**

Skilled and versatile Full Stack Developer with experience in designing, developing, and maintaining web applications using a wide range of technologies including Java, microservices, RESTful APIs, and messaging systems like Kafka. Proficient in front-end technologies such as HTML, CSS, and JavaScript, as well as back-end frameworks like Node.js. Experienced with development and orchestration tools like Kubernetes and POSTMAN. Committed to delivering high-quality, scalable, and efficient code while staying abreast of the latest industry trends and best practices. Seeking to leverage my expertise to create seamless user experiences and innovative solutions. Passionate about problem-solving, continuous learning, and contributing to dynamic development teams to drive successful project outcomes.

## ACADEMIC QUALIFICATIONS

Master in Computer Information Systems (Certified in CyberSecurity) Jan 2023 - May 2024 Colorado State University Fort Collins GPA: 3.73 / 4 Master in Information Technology Sept 2020 - Jun 2022 **IIIT** Hyderabad CGPA: 9.3 / 10 **Bachelor of Technology Mathematics and Computing** Aug 2015 - Aug 2019 IIT Guwahati **WORK EXPERIENCE Organization Colorado State University, Fort Collins** Aug 2023 - May 2024 : Profile **Graduate Research Assistant Responsibilities :** Collaborated with Dr. Yiwen Gao on cyber security research, contributing to data collection and analysis efforts. Utilised advanced web scraping techniques to gather data from diverse sources and used the fuzzywuzzy library to identify and analyse similarities within datasets. • Automated the data scraping process to enhance efficiency and accuracy, demonstrating strong problem-solving and technical skills in support of research objectives.

- Scraping the required companies data from various sources and finding similarities using fuzzywuzzy library.
- Evaluated and assessed student performance in CIS-370 (Business Analytics) course, employing robust grading methodologies to measure comprehension and application of course materials.
- Technologies used : Python, Java, NLP, JMP software, Business Analytics, MS Excel, OOPS

Organization	:	Techmojo Solutions, Hyderabad	Jul 2022 – Jul 2023
Profile	:	Member of Technical Staff (Java Developer)	
Responsibilities	:	、 <b>-</b> /	
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Developed an end-to-end system for vendors using REST APIs so as to enable online casino facilities.

- Successfully integrated new vendors and games for njord ventures' all brands so as to facilitate gaming operations for its customers across various countries in Europe.
- Enhanced the user registration and regulatory services to enable regulatory compliance specific to countries so as to launch the operations of the client in those countries.
- Improved the cashier service so as to enable cryptocurrency transactions for the njord customers.
- Designed and implemented a frontend website for vendors to conduct online casino operations to deliver an intuitive user experience.
- Diligently adhered to Agile methodologies and utilised the Scrum framework on a daily basis to effectively manage and deliver projects within designated timelines.
- Followed CI/CD pipeline techniques using git and jira to enhance project execution and team collaboration.
- Technologies used : Java, Spring Boot, Microservices, MySQL, JavaScript, HTML, CSS, React.js, Agile, MongoDB, Kubernetes, CI/CD, REST API, POSTMAN, JSON, XML, OOPS, JIRA, Kafka

# Organization:Omdena AI Community (Freelance)Jan 2019 – May 2024Profile:Machine Learning EngineerProject:Early Cancer Detection in Adults (Medical Science)Responsibilities:

- Implemented blockchain and artificial intelligence technologies to develop a platform facilitating early cancer detection in adults, with a specific focus on the youth age group.
- Collaborated with a multidisciplinary team to create a system connecting patients and healthcare providers with on-demand fellowship-trained expert radiologists globally.
- Utilised AI algorithms to assess the likelihood and risk of developing cancer based on patient symptoms, leveraging a comprehensive database of diseases and past symptoms.
- Employed feature engineering that led to the creation of a robust dataset comprising 1,000 features, ensuring data integrity and relevance.
- Developed and implemented an initial-level model based on patient symptoms, contributing to early cancer detection efforts.
- Collaborated with stakeholders to continuously refine and improve the platform's functionality and performance.
- Technologies used : Python, Blockchain

#### Project : Natural Language Processing (NLP) and Sentiment Analysis Project

**Responsibilities** :

- Conducted sentiment analysis on youth sentiments by web scraping data from Twitter, Instagram, and UNICEF, utilising Python.
- Performed Exploratory Data Analysis (EDA) to uncover patterns and distributions in the collected data.
- Employed advanced visualisation techniques using Plotly to create interactive basemaps, word clouds, violin plots, scatter plots, and dynamic heatmaps, facilitating deeper understanding of youth thoughts and sentiments.
- Visualised sentiment data over geographic locations using Tableau to provide insights into regional sentiment variations.
- Utilised Latent Dirichlet Allocation (LDA) to identify key topics in the data, revealing prevalent themes in youth sentiments.
- **Technologies used** : Python (NumPy, pandas, scikit-learn, TensorFlow, PyTorch), Plotly, Tableau, Latent Dirichlet Allocation (LDA), AWS Sagemaker

#### Organization : Freelance Profile : Full-Stack Developer

Responsibilities :

- Developed a comprehensive book review website similar to IMDB, providing a platform for users to browse, review, and rate books.
- Designed and implemented server-side logic using Python and Flask API to handle user authentication, ensuring secure login and account management functionalities.
- Utilised SQLAlchemy for database management, ensuring efficient storage, retrieval, and manipulation of user accounts, book details, reviews, and ratings.

May 2021 – Jul 2021

- Enabled users to interact with the platform by allowing them to give star ratings to books, submit detailed reviews, and see reviews and ratings submitted by other users.
- Created dynamic and responsive front-end interfaces using HTML, CSS, and JavaScript to enhance user experience and engagement, ensuring a seamless interaction with the review and rating features.
- Technologies used : Flask, postgreSQL, HTML, CSS, Python, sqlAlchemy, JavaScript

Organization	: Multiverz, Singapore (Remote)	May 2021 – Jul 2021		
Profile	: Co-op intern			
Responsibilities	:			
•	<ul> <li>Led the development of a Natural Language Processing (NLP) model aimed at extracting key skills from diverse job postings.</li> <li>This model laid the foundation to the creation of an innovative application, empowering students and governities to pinpoint crucial industry skills for tailored training strategies.</li> </ul>			
	Significantly boosted accuracy to an impressive 90% by integrating a Named Entity Recog model, demonstrating a commitment to precision and excellence in skill identification. <b>Technologies used</b> : Python (NumPy, pandas, scikit-learn, beautifulsoup), NLP, Named Er	,		

Organization	: Tikaj Technologies, Gurgaon	Oct 2019 – Dec 2019
Profile	: Data analytics Intern	
Responsibilities	:	
•	Initiated and executed a project focused on data acquisition from diverse local businesses a	across tier-2 and
	tier-3 cities as well as small towns, utilising multiple websites as data sources.	
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- Spearheaded the development of a comprehensive application offering centralised access to business information across various locales.
- Implemented a Python-based web crawler tool to automate data retrieval processes, significantly enhancing efficiency and reducing scraping time for diverse website formats.
- Technologies used : Python (NumPy, pandas, scikit-learn, beautifulsoup, scrappy, selenium), MongoDB, bitbucket

## **PROJECTS**

- Chess Engine Development
  - Designed and implemented a sophisticated chess engine in python capable of autonomous gameplay, leveraging machine learning algorithms for position evaluation and move selection.
  - Employed a variety of machine learning techniques to assess positions and determine optimal moves, enhancing engine performance.
  - Implemented reinforcement learning methodologies such as the Min-Max algorithm and Alpha-Beta pruning to further strengthen the engine's strategic capabilities.
  - **Technologies used**: Python, pygame, Artificial Intelligence, Greedy algorithms, Machine Learning, Reinforcement Learning.

## SOFTWARE SKILLS

- Python
- Machine Learning
- Data Structures and algorithms
- C
- C++
- Java
- MATLAB
- Jupyter notebook

- MySQL
- Spring Boot
- Microservices
- HTML
- CSS
- Java Script
- R
- Git

## **EXTRA CURRICULARS**

- Champion in district level chess championship in the year 2020.
- Part of the bronze medal winning team in the inter hostel chess tournament in the event "SPARDHA" at IIT Guwahati in the year 2016.
- Captain of the silver medal winning team in the inter hostel cricket tournament in the event "SPARDHA" at IIT Guwahati in the year 2016.
- Active participant in various online chess tournaments in lichess.org and chess.com

## **AWARDS & ACHIEVEMENTS**

- Received Cyberdefense Pro certification from Testout.
- Received scholarship for excellence in National Talent Search Examination in the year 2013.
- Received Certified Financial Analytics Practitioner (CFAP) certificate for excellence in the CFAP course from Henry Harvin Education in the year 2018
- Finished the "Complete JavaScript course 2020" course on Udemy and was awarded a certificate for excellence in the course in the year 2020.
- Finished the "Master the Coding Interview : Data structures + Algorithms" course on Udemy and was awarded a certificate for excellence in the course in the year 2020.